

<b>Title</b>	<b>Explain the growth of single-seed Pacific oyster spat in a pond-nursery system, and handle the spat to maintain quality</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	<p>This unit standard is for people involved in farming single-seed Pacific oyster spat and who have responsibility for quality and quantity of output.</p> <p>People credited with this unit standard are able to: explain the key factors that influence single-seed Pacific oyster spat growth in a pond-nursery system; explain the ways to manipulate the growth and quality of single-seed oyster spat in a pond-nursery system; explain the indicators of good growth performance of single-seed Pacific oyster spat that can be observed in the pond-nursery system and on the farm grow-out; explain the procedures used for estimating numbers of single-seed Pacific oyster spat and carry out the estimation; and handle single-seed Pacific oyster spat in a pond-nursery system to maintain quality.</p>
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<b>Classification</b>	Seafood > Aquaculture
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<b>Available grade</b>	Achieved
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## Guidance Information

### Definition

*Company requirements* refer to instructions to staff on policy and procedures that are communicated in an oral or written form. These requirements must include legislation and safety requirements and may include but are not limited to – manufacturers' instructions, industry codes of practice and standards.

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## Outcomes and performance criteria

### Outcome 1

Explain the key factors that influence single-seed Pacific oyster spat growth in a pond-nursery system.

### Performance criteria

- 1.1 The explanation includes an outline of the environmental factors that influence single-seed Pacific oyster spat growth in a pond-nursery system.

Range water temperature, water quality, food availability.

- 1.2 The explanation includes three management practices that can be used to manipulate the growth of single-seed Pacific oyster spat in a pond-nursery system.

Range may include but is not limited to – stocking density, water flow, time in and out of water, handling, pond fertilisation.

## **Outcome 2**

Explain the ways to manipulate the growth and quality of single-seed oyster spat in a pond-nursery system.

### **Performance criteria**

- 2.1 The explanation includes the effect that the time the single-seed Pacific oyster spat is in and out of the water has on growth rate and quality of oyster spat.
- 2.2 The explanation includes the effect of pond fertilisation on single-seed Pacific oyster spat growth rate.

## **Outcome 3**

Explain the indicators of good growth performance of single-seed Pacific oyster spat that can be observed in the pond-nursery system and on the farm grow-out.

### **Performance criteria**

- 3.1 The explanation includes the indicators of good growth performance of single-seed Pacific oyster spat that can be observed in the pond-nursery system and on the farm grow-out.

Range evidence of two indicators is required.

## **Outcome 4**

Explain the procedures used for estimating numbers of single-seed Pacific oyster spat and carry out the estimation.

### **Performance criteria**

- 4.1 The explanation includes the procedure for estimating the number of single-seed Pacific oyster spat in the nursery in accordance with company requirements.
- 4.2 The explanation includes the differences in requirements for estimating single-seed Pacific oyster spat numbers on the farm grow-out in accordance with company requirements.
- 4.3 The explanation includes the factors that influence the precision of the estimate of single-seed Pacific oyster spat numbers in accordance with company requirements.

- 4.4 The explanation includes the estimation of the number of single-seed Pacific oyster spat in the nursery in accordance with company requirements.

## Outcome 5

Handle single-seed Pacific oyster spat in a pond-nursery system to maintain quality.

## Performance criteria

- 5.1 Handle the single-seed Pacific oyster spat to maintain their quality in the pond-nursery system in accordance with company requirements.

Range includes but is not limited to – rumbling, grading, stocking, cleaning.

<b>Planned review date</b>	31 December 2026
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## Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 2008	31 December 2023
Review	2	28 October 2021	31 December 2023
Reinstatement	3	29 February 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0123
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

## Comments on this unit standard

Please contact Muka Tangata – People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.